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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,974	07/11/2006	Gian Luca Araldi	283523US0PCT	2230
22850 7590 11/16/2007 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.			EXAMINER	
1940 DUKE ST	TREET	SOLOLA, TAOFIQ A		
ALEXANDRIA	KANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1625	
			. •	
			NOTIFICATION DATE	DELIVERY MODE
			11/16/2007	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Comments	10/564,974	ARALDI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Taofiq A. Solola	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutore period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)☐ Claim(s) <u>1-28 and 30-38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-7,9-17,30,32,33 and 35-38</u> is/are allowed.						
6) Claim(s) 8,18-28,31 and 34 is/are rejected.	_					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the I	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Informal P					
Paper No(s)/Mail Date <u>1</u> .	6) Other:					

Claims: 1-28, 30-38 are pending in this application.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 19 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claim is not drawn to practical utilities under the US patent practice. To ascertain the utilities one must read the specification into the claims contrary to several precedent decisions by US courts and the official practice. Even then, the claim would become duplicate of 20-27. However, under the US patent practice duplicates or substantial duplicate claims cannot be in the same application. The claim is an attempt by applicant to claim treatment of all disorders, now known and to be discovered in the future, associated with all prostaglandins. Therefore, it is A reach through claim and no longer patentable under the US patent practice. A claim must stand alone to define the invention, and incorporation into the claims by reference to the specification or an external source is not permitted. Ex parte Fressola, 27 USPQ 2d 1608, BdPatApp & Inter. (1993). In patent examination, it is essential for claims to be precise, clear, correct, and unambiguous. In re Zletz, 893 F.2d 319, 13 USPQ2d 1320 (Fed. Cir. 1989). By deleting the claim the rejection would be overcome.

Claims 19-27, 31 are rejected under 35 U.S.C. 112, first paragraph, because the specification does not reasonably provide enablement for using the instant compounds as

claimed. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

"In the context of determining whether sufficient "utility as a drug, medicant, and the like in human therapy" has been alleged, it is proper for the examiner to ask for substantiating evidence unless one with ordinary skill in the art would accept the [compounds and the utilities] as obviously correct." In re Jolles, 628 F.2d 1327, 1332 (Fed. Cir. 1980), citing In re Novak, 306 F.2d 924 (CCPA 1962); see 340 F.2d 974, 977-78 (CCPA 1965). "A specification disclosure which contains a teaching of the manner and process of making and using the invention . . . must be taken as in compliance with the enabling requirement of the first paragraph of § 112 unless there is reason to doubt the objective truth of the statements contained therein which must be relied on for enabling support." In re Brana, 51 F.3d 1560 (Fed. Cir. 1995), Id. at 1566, quoting Marzocchi, 439 F.2d 220, 223 (CCPA 1971); Fiers v. Revel, 984 F.2d 1164, 1171-72 (Fed. Cir. 1993), quoting *Marzocchi*, 439 F.2d at 223; see also *Armbruster*, 512 F.2d 676, 677 (CCPA 1975); Knowlton, 500 F.2d 566, 571 (CCPA 1974); Bowen, 492 F.2d 859 (CCPA 1974); Hawkins, 486 F.2d 569, 576 (CCPA 1973). Where there is "no indication that one skilled in the art would accept without question [the instant compounds and method of use] and no evidence has been presented to demonstrate that the claimed products do have those effects Novak, 306 F.2d at 928, an applicant has failed to sufficiently demonstrate sufficient utility and therefore cannot establish enablement." In re Rasmusson, 75 USPQ2d 1297 (CAFC 2005). The claimed utilities are not enabled for the following reasons:

For rejection under 35 U.S.C. 112, first paragraph, the following factors must be considered. In re Wands, 8 USPQ2d 1400, 1404 (CAFC, 1988):

Application/Control Number: 10/564,974

Art Unit: 1625

"The factors to be considered [in making an enablement rejection] have been summarized as a) the breadth of the claims, b) the nature of the invention, c) the state of the prior art, d) the relative skill of those in that art, e) the predictability or unpredictability of the art, f) the amount of direction or guidance presented, g) the presence or absence of working examples, h) the quantity of experimentation necessary. The breathe of the claims encompass many compounds with different substituents. The nature of the invention is using compounds as pharmaceuticals. The instant compounds appear to treat every known disease. The claims are drawn to treating conditions associated with all prostaglandins, various diseases claimed in their broadest terms: e.g. an eosinophile disorder and immune deficiency. The term "susceptible" in the claims implies prevention of the disorders.

There is no prior art wherein a compound or sets of compounds are applicable for preventing all the listed disorders and those that are associated with all prostaglandins. The specification fails to disclose how a "normal" human predisposed to all the listed diseases are those associated with all prostaglandins would be identified and how each of the diseases could be prevented.

The state of the prior art is that enzymes react in a lock and key mechanism and the structure of the compound must be specific. The presence of methyl instead of H changes the binding of a compound with an enzyme. For example, theophylline and caffeine differ by a methyl group but one is used as a bronchodilator while the other is not used as a pharmaceutical. Hence, there is no absolute predictability or established correlation between different substituents on a core that they would behave in a certain way. The uncertainty presents one of ordinary skill in the art with obstacles and prevents her from accepting any therapeutic regimen on its face. The level of ordinary skill in the art of pharmaceutical art is high. The level of unpredictability in pharmaceutical art is very high, e.g. theophylline v.

caffeine. It is well established that "the scope of enablement varies inversely with the degree of unpredictability of the factors involved", and physiological activity is generally considered to be an unpredictable factor. See In re Fisher, 427 F.2d 833, 839, 166 USPQ 18, 24 (CCPA 1970). The specification, pages 46-62, discloses assays that may be performed to ascertain the applicability of the instant compounds. Such are not conclusive evidence that the compounds in fact have the asserted utilities. Many of the assays are not performed. The results of inhibition of EP2 and EP4 are shown in Tables I-III. However, there is no analysis and discussion of the results. No nexus is established between the results and each disorder. According to the specification, inhibition of COPD, colitis and TNFα's release by the instant compounds are performed but no result is disclosed. See pages 60-62. Therefore, such are deemed speculations because there is no conclusive evidence that the drugs would work as claimed. Given the limited guidance in the specification one of ordinary skill in the art would have to perform significant amount of experiments to make and use the invention as claimed.

MPEP 2164.01(a) states, "[a] conclusion of lack of enablement means that, based on the evidence regarding any of the above factors, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 999 F.2d 1557,1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)." That conclusion is clearly justified here. By deleting the claims the rejection would be overcome.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

Claims 8, 18-28, 31, 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which

Application/Control Number: 10/564,974

Art Unit: 1625

applicant regards as the invention. For reasons set forth above under 35 USC 112, first paragraph, claims 19-27, 31 are indefinite.

Claim 8 is confusing and therefore indefinite. The phrase "wherein R3 H", line 2, requires appropriate correction.

Claims 18 and 28 are duplicates of claim 1. Claim§1, 18 and 28 are drawn to the same compounds but, 18 and 28 recite intended use of the compounds. Under the US patent practice intended use is not a limitation of a compound or product. *In re Hack*, 114USPQ 161 (CCPA, 1957); In *re Craig*, 90 USPQ 33 (CCPA, 1951); *In re Brenner*, 82 USPQ 49 (CCPA, 1949). By deleting the claims the rejection would be overcome.

Claim 34 depends from cancelled claim 29, and is drawn to making intermediate compound (VIII) not compounds of claim 1. Therefore, the claim is indefinite. By deleting the claim the rejection would be overcome.

Applicant should note that the requirement of 35 USC 112, is not what is obvious to one of ordinary skill in the art but a "full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same", *Lookwood v. American Airlines Inc.* 107 F.3d 1565, 1572, 41 USPQ2d 1961, 1966 (Fed Cir. 1997). In patent examination, it is essential for claims to be precise, clear, correct, and unambiguous. *In re Zletz*, 893 F.2d 319, 13 USPQ2d 1320 (Fed. Cir. 1989).

## Allowable Subject Matter

Claims 1-7, 9-17, 30, 32-33, 35-38 are allowable over prior arts of record.

## Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taofiq A. Solola, PhD. JD., whose telephone number is (571) 272-0709.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres, can be reached on (571) 272-0867. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

TAOFIQ SOLOLA PRIMARY EXAMINER

- lola

**Group 1625** 

November 10, 2007